

DIN EN 13166:2015-04 (E)

Thermal insulation products for buildings - Factory made phenolic foam (PF) products - Specification (includes Amendment A1:2015)

Contents		Page
Foreword		4
1	Scope	6
2	Normative references	6
3	Terms, definitions, symbols, units and abbreviated terms	7
4	Requirements	11
5	Test methods	17
6	Designation code	19
7	Assessment and Verification of the Constancy of Performance (AVCP)	20
8	Marking and labelling	21
Annex A (normative)	Determination of the declared values of thermal resistance and thermal conductivity	22
Annex B (normative)	"Product type determination" ("PTD") and factory production control (FPC)	24
Annex C (normative)	Determination of the aged values of thermal resistance and thermal conductivity	28
Annex D (informative)	Additional properties	33
Annex E (normative)	PF multi-layered thermal insulation products	34
Annex ZA	Annex ZA (informative) "Clauses of this European Standard addressing the provisions of the EU Construction Products Regulation"	36
Bibliography		47
Tables	Table 1 -- Tolerances for length and width	12
	Table 2 -- Classes for thickness tolerances	12
	Table 3 -- Tolerances for deviation from flatness	13
	Table 4 -- Dimensional stability under specified temperature and humidity conditions	14
	Table 5 -- Levels for compressive strength	14
	Table 6 -- Levels for tensile strength perpendicular to faces	15
	Table 7 -- Levels for short term water absorption by partial immersion	16
	Table 8 -- Levels for long term water absorption by partial immersion	16

Table 9 -- Test methods, specimens and conditions	18
Table A.1 -- Values for k for one side 90 % tolerance interval with a confidence level of 90 %	23
Table B.1 -- Minimum number of tests for "IPTD" and minimum product testing frequencies	24
Table B.2 -- Minimum product testing frequencies for the reaction to fire characteristics (1 of 2)	26
Table C.1 -- Test times for product thicknesses	30
Table C.2 -- Increments to be added to accelerated aged values of thermal conductivity to obtain the time averaged value over 25 years (W/m.K)	31
Table D.1 -- Test methods, test specimens, conditions and minimum testing frequencies	33
Table ZA.1 -- Relevant clauses for factory made phenolic foam and intended use	37
Table ZA.2 -- Systems of AVCP	38
Table ZA.3.1 -- Assignment of AVCP tasks for factory made phenolic foam products under system 1 for reaction to fire and system 3 (see Table ZA.2)	39
Table ZA.3.2 -- Assignment of AVCP tasks for factory made phenolic foam products under system 3 (see Table ZA.2)	40
Table ZA.3.3 -- Assignment of AVCP tasks for factory made phenolic foam products under combined system 4 for reaction to fire and system 3 (see Table ZA.2)	41
Figures Figure ZA.1 -- Example CE marking information	44